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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,686 03/09/2004		03/09/2004	Teiji Yamamoto	04021/LH	4859
1933	7590	02/24/2006		EXAMINER	
FRISHA 220 Fifth	UF, HOLT. Avenue	JULES, F	JULES, FRANTZ F		
16TH Flo			ART UNIT	PAPER NUMBER	
NEW YO	RK. NY 1	0001-7708	3617		

DATE MAILED: 02/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summan	10/797,686	YAMAMOTO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Frantz F. Jules	3617					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 01 December 2005.							
2a) This action is FINAL. 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-6 and 8-24</u> is/are pending in the application.							
4a) Of the above claim(s) 3.4.6.12-15 and 17 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,2,5,8-11,16 and 18-24</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the position conjugate to the project manifest and the conjugate to the co							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D  5) Notice of Informal I	ate Patent Application (PTO-152)					
Paper No(s)/Mail Date <u>12/01/2005</u> .	6) Other:						
LUS. Patent and Trademark Office PTOL-326 (Rev. 7-05) Office Act	ion Summon.	art of Danar No (Mail Data 2016)					
The Section of the se	ion Summary Pa	art of Paper No./Mail Date 02192006					

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fig. 2 and a length tat is longer than one pitch of the links.

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2.

#### **DETAILED ACTION**

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## Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Claims 1-2, 5, 16, 18-20 are rejected under 35 U.S.C. 103(a) as being

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- unpatentable over Attwell (US 2,535,254) in view of Hefter (US 6,758,145).

  Attwell discloses a crawler structure comprising an endless crawler belt wound between a sprocket (22) and an idler (18) of a crawler vehicle; and a crawler belt link grinding system constituted by plate member (29) for grinding treads of links (24) of a crawler belt link which includes ground engaging lugs (26) since during operation of the crawler, plate member 29 constantly grind the inner surface of the track links, wherein the plate member (29) has a width that is larger than an outside width of the links (24) as seen in

Attwell discloses all of the features as disclosed above but does not disclose a grinding system comprising an abrasive plate. The general concept of providing a grinding system comprising an abrasive plate to a vehicle is well known in the art as illustrated by Hefter which discloses the teaching of a grinding system comprising an abrasive plate to a vehicle. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Attwell to include the use of a grinding system comprising an abrasive plate (33) to his advantageous crawler belt as taught by Hefter in order to

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improve the surface cleaning of the track while providing a cleaning system that is durable in construction, carefree of maintenance, easy to assemble.

3. Claims 8-11, 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer (US 3,053,334) in view of Smyth (US 1,660,100) and Hefter (US 6,758,145). Bauer discloses a crawler structure comprising an endless crawler belt wound between two idler (14) of a crawler vehicle, a track roller (17) disposed under the frame, a carrier roller (17) disposed on said track frame; and a crawler belt link cleaning system constituted by plate member (23) for cleaning treads of links of a crawler belt link (11) since during operation of the crawler, plate member 23 constantly rubs the respective treads of the track links.

Bauer discloses all of the features as disclosed above but does not disclose a crawler structure comprising a sprocket and a grinding system comprising an abrasive plate. The general concept of providing a sprocket to a crawler structure is well known in the art as illustrated by Smyth which discloses the teaching of a sprocket (D) in a crawler structure. Also, the general concept of providing a grinding system comprising an abrasive plate to a vehicle is well known in the art as illustrated by Hefter which discloses the teaching of a grinding system comprising an abrasive plate to a vehicle. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Bauer to include the use of a sprocket in his advantageous track assembly as taught by Smyth in order to reduce the risk of slippsge in the track thereby increasing traction in the track assembly. In adition, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Bauer to include the use of a

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grinding system comprising an abrasive plate (33) to his advantageous crawler belt as taught by Hefter in order to improve the surface cleaning of the track while providing a cleaning system that is durable in construction, carefree of maintenance, easy to assemble.

## Response to Arguments

4. Applicant's arguments filed 12/01/05 have been fully considered but they are most in view of the new ground of rejection.

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Parisotto et al and Moon are cited to show related crawler belt comprising a plate for grinding the tread of the belt.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frantz F. Jules whose telephone number is (703) 272-6681. The examiner can normally be reached on Monday-Thursday and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph S. Morano can be reached on (703) 272-6684. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frantz F. Jules Primary Examiner Art Unit 3617

**FFJ** 

February 19, 2006

FRANTZ F. JULES
PRIMARY EXAMINER